



Material-driven Railway Solutions by Continental

Pioneering Rail Mobility With Material-driven Railway Solutions

In a world of rapid change, three mega trends stand out: population growth, global connectivity and the unstoppable force of globalization. These trends are reshaping industries, and rail transport is no exception. As we move towards a greener planet, the demand for sustainable, safe, comfortable, reliable and affordable rail systems is soaring. At Continental, we want to be at the forefront of this trend with innovative solutions tailored to meet these evolving demands.

Our technologies are not just cutting-edge; they are crafted to enhance the performance and longevity of rail systems. We offer customer-engineered, material-driven solutions that exceed expectations, backed by comprehensive lifetime and refurbishment services as well as state-of-the-art in-house testing facilities.

Our commitment to sustainability is more than just a promise; it is a core principle. We adhere to the highest industry standards, ensuring minimal maintenance, increased safety and reduced costs for our customers. This dedication, combined with over 150 years of engineering and material expertise, makes Continental the ideal partner to shape the future of rail mobility. Together, we can turn today's challenges into tomorrow's successes, revolutionizing rail transport for a better, brighter future.

Partnering for Success On the Same Track

Continental is the premier choice for material-driven railway solutions for the rail sector, leveraging expertise from other industries. Our complex solutions combined with individual expert consulting make us a reliable partner with sustainable ambitions, while ensuring safe and comfortable rail transport.

In the railway segment, Continental offers its customers:

- › 150 years of brand heritage in engineering and material expertise
- › Longstanding experience in demanding markets
- › Leadership in innovation and technology
- › Certified in-house testing facilities

Internationally present in the EMEA region and always personally there for you – that is our definition of customer proximity. With Continental, you are partnering for success, on the same track!



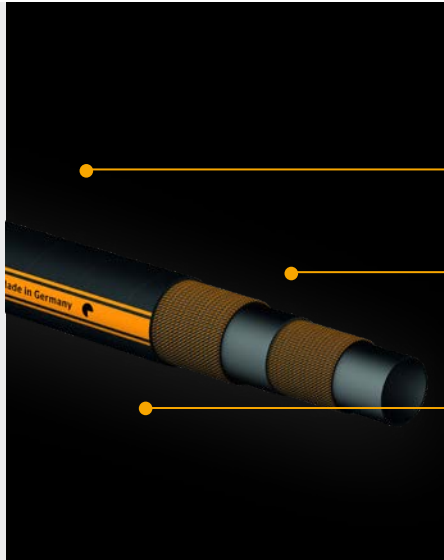
Products and Solutions for the Rail Industry

Our Highlight Products and Solutions

At Continental, we are continuously innovating for the rail market to improve rail transport and meet the needs of our customers and their applications. Whether it is our hoses, hydraulic bushes, our refurbishment service or fire protection: we demonstrate our innovative strength every day. Find further information on our highlight products and solutions below.

High-performance Hoses

With a comprehensive range of high-quality railway hoses, we contribute to making passenger and cargo transport by rail safer and more convenient. The hoses are made of high-quality rubber compounds in line with the latest engineering standards and in compliance with national and international standards. They are subject to constant quality checks, meet the most stringent fire protection requirements and have an impressive reliability, safety and durability record as well as being extremely flexible. Find out more [here](#).



- Wide range of hoses
- High-quality rubber compounds
- In compliance with national and international standards, meeting highest requirements

Fire Protection for Maximum Safety

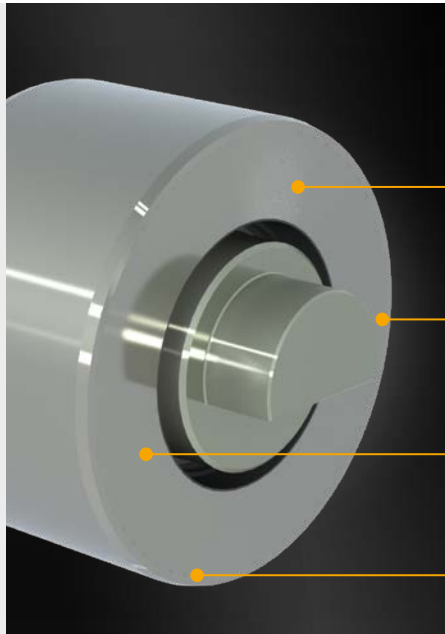
We at Continental develop robust and durable solutions. We ensure maximum safety while also realizing individual customer demands. To develop our fire safety solutions, we utilize the materials and longstanding development expertise of our business units. Once installed in trains, the solutions help to enhance safety and comfort. Continental products are thoroughly tested in constant quality controls and can also be certified according to EN 45545 on request. Find out more [here](#).



- Comprehensive product range including air spring systems, hoses and more
- Optimized rubber compounds
- Constant quality controls

Hydraulic Bushing

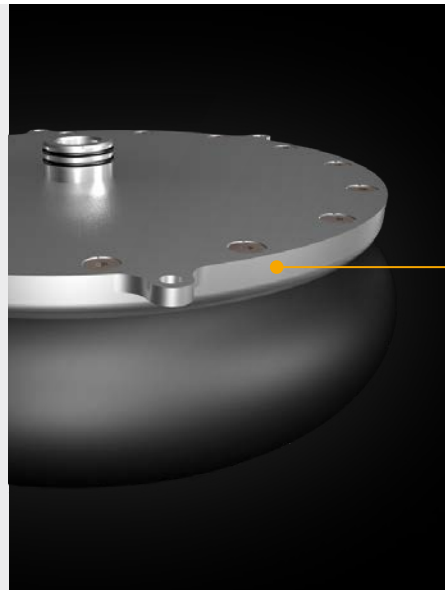
Continental is improving train suspension technologies with its Hydraulic Wheelset Guiding Bushes. Their advanced design ensures that hydraulic fluid works bilaterally, providing unmatched performance and longevity. The bushes are built to handle dynamic loads from all sides, making wheelsets and rail tracks more resilient to wear and tear. This means less frequent maintenance and replacement of wheelsets – resulting in lower costs. In addition, they ensure smooth articulation and reduce the impact of track irregularities, thus enhancing train safety. Find out more [here](#).



- Enhanced passenger comfort through superior vibration and noise reduction
- Increased lifespan of critical train components due to balanced and effective damping
- Reduced maintenance costs thanks to our bushes' durability and reliability
- Stiffness combination in one direction up to 15 times higher

Refurbishment Service

Regular maintenance of rail vehicle components is essential for compliance with high safety standards. But it does not always have to be a new system. We recondition used air spring parts to OEM quality in our refurbishment service. With individual advice, our customers benefit from this service in several ways: significantly lower costs and components in OEM quality with the corresponding warranty. In addition, this service prevents waste and thus makes a positive contribution to the environment. Find out more [here](#).



- Up to 50 percent faster in lead time

Extended Portfolio of Rail Vehicle Applications

Expertise Combined with Innovation Power

From the powertrain to the body to the bogie: with our systems and service solutions, we are present in many compartments of a rail vehicle. Our portfolio is extensive and continuously expanding. This makes us a key partner to the rail industry, ensuring that rail transport is not only safe and efficient, but also comfortable and sustainable.

Have a look at our wide range of rail application solutions below.

POWERTRAIN



Battery-electric Cooling

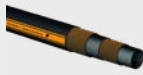


Bearings



Mounting Elements

BODY



Cable Protection Hoses



Cooling Water Hoses



Wastewater Hoses



Pneumatic Brake Hoses



Door Drive Belts



Actuators for Pantographs



Coupling Springs

BOGIE



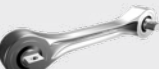
Air Spring Systems



Primary Springs



Torque Supports



Traction Links



Lateral Bumpers



Primary Bushings



Hydraulic Bushings



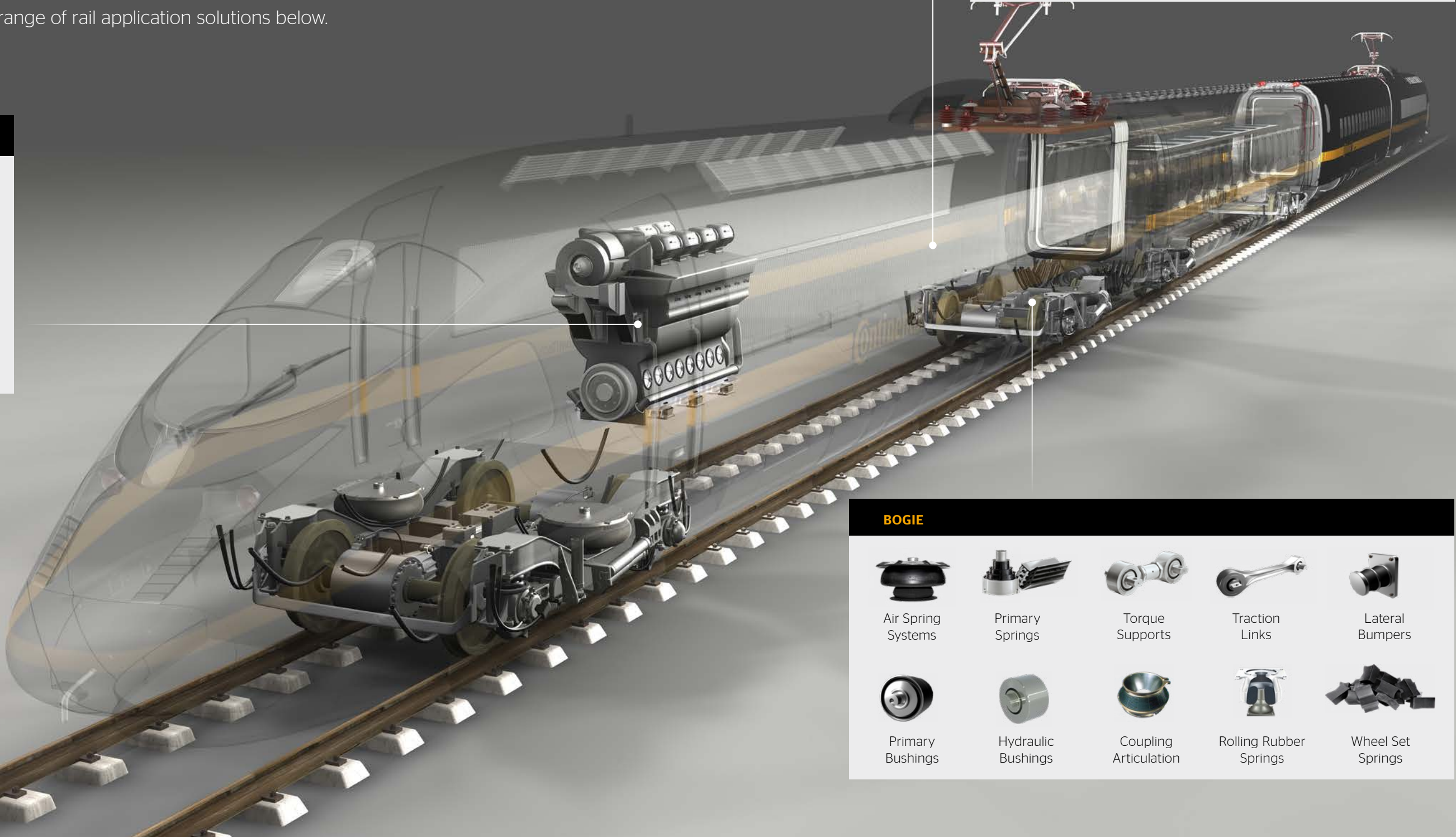
Coupling Articulation



Rolling Rubber Springs



Wheel Set Springs



ContiTech Deutschland GmbH

Continental Plaza 1
30173 Hanover, Germany
(PO Box 169 | 30001 Hanover | Germany)
Phone +49 511 938-71
mailservice@contitech.de

Your contact:

www.contitech.de/contactlocator



For further information:

[https://www.continental-industry.com/en/
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